(D) TECHWELL"

MORE CONFERENCES ▼

Al Con USA 2025 - Concurrent Sessions

Concurrent sessions offer attendees the flexibility to explore a variety of topics throughout the conference on Wednesday and Thursday order to customize their learning experience. Learn both enterprise foundations and new methodologies to grow your skills, supercharge knowledge, and re-energize your career growth.

WEDNESDAY, JUNE 11

W1 Building Reliable AI Agent Flows

Wednesday, June 11, 2025 - 11:00am to 11:45am

Al agents are revolutionizing how we interact with software, but their reliability remains a critical challenge. In this talk, Jason Arbon explores the key principles and techniques for designing Al agent flows that are predictable, testable, and robust. Attendees will learn how to structure Al-driven interactions to minimize failure points, leverage validation mechanisms, and integrate automated testing strategies to ensure smooth execution. Drawing from real-world applications and lessons learned in Aldriven software testing, this session will provide practical insights for engineers,...



Jason Arbon testers.ai

W2 Using GenAl to Advance Azure AlOps

Wednesday, June 11, 2025 - 11:00am to 11:45am

In today's rapidly evolving digital landscape, maintaining high service quality is crucial. To achieve this, Microsoft is leveraging cutting-edge technologies such as Generative AI and Large Language Models (LLMs) to enhance service reliability and developer productivity. LLMs excel at understanding and reasoning over large volumes of data. They can generalize across diverse tasks and domains, making them invaluable for generating models, insights, and automating intricate tasks. By integrating LLMs and Generative AI into the complex domains of incident response and root cause analysis,...



Sarvani Sathish Kumar Microsoft Corp

W3 Testing Powered by AI/ML Synthetic Test Data: A Game Changer

Wednesday, June 11, 2025 - 11:00am to 11:45am

The session covers a testing approach that utilizes a new age Test Data Management (TDM) technique which learns from production data. Machine learning analyzes the data to create a model capable of generating synthetic data with identical source data attributes. Multiple learning iterations refine the model, enhancing its accuracy with each cycle. The data model incorporates security measures like differential privacy, enabling safe movement to lower environments. Later, generative Al leverages this model to produce desired volumes of test data for various testing types, including...

Learn More



Praveen Bagare EPAM

S1 Mission: MCPossible — Deploying Real Agents with RAG and Tools at the Edge

Wednesday, June 11, 2025 - 11:00am to 11:45am



From chatbots to agents that can actually get stuff done, LLMs are quickly growing up—but giving them tools and external knowledge they weren't trained on isn't as straightforward as it seems. In this session, I'll walk through how LLMs like Claude uses MCP (Model Context Protocol) to call external tools, how to automate document retrieval with AutoRAG, and how developers can combine both to build useful,



reliable Al workflows. We'll look at how to spin up your own tools with just a URL, make agents smarter with RAG, and avoid some common edge-case failures (pun intended). If you're RAG-...

Learn More

Test Machina: Demystifying AI-Driven Testing Agents

Wednesday, June 11, 2025 - 11:50am to 12:35pm

Software vendors and practitioners are using artificial intelligence (AI) and machine learning (ML) to create a new wave of test automation tools. Such tools leverage autonomous and intelligent agents to explore, model, reason and learn about a software product. But how do these testing agents really work? Is this technology any good? And can we really trust them to validate software? Tariq King will introduce you to the world of agentic Al and discuss its benefits, challenges and other limitations. Learn how Al test agents use AI/ML technologies to mimic human testing activities such as... Learn More



Test IO

Try and Come for My Job: When Vibe Coding Makes Sense - and How to Use (and W5 Test!) It

Wednesday, June 11, 2025 - 11:50am to 12:35pm

Ok, real talk? Vibe coding is exiting! You can absolutely use it in your shop, and still call yourself a "real dev," or a "real tester." But you can't ALWAYS use it. No, you should not deploy directly to prod. No, you shouldn't use Al-generated code without code review by, you know, a human who knows what they're doing. Yes, you have to be careful. But you don't have to ward off vibe coding entirely, like fighting a vampire with garlic. You DO need to learn when to let 'er ride, and when to take the keyboard back. In this talk, Jeremiah will unpack the ris

Jeremiah Marble 3rd Rodeo Al

of vibe coding: that wild west...

Learn More

Securing the Foundations of AI: Addressing the Past to Safeguard the Future W6

Wednesday, June 11, 2025 - 11:50am to 12:35pm

Al's future hinges on an ecosystem built on decades of technical debt, fragmented tools, and opaque processes; creating vulnerabilities that threaten the reliability and security of modern applications. In this talk, Peter will examine how the legacy of open-source numerical computing and software supply chains is influencing Al's trajectory. Drawing from over a decade of leadership in the Python and scientific computing communities, Peter will share strategies for tackling these challenges: improving transparency in data and dependencies, building curated software stacks,...

Learn More



Anaconda

Collaborate Smarter: Accelerating Work with AI in Lucid

Wednesday, June 11, 2025 - 11:50am to 12:35pm

In a world of constant change, collaboration must evolve—becoming faster, clearer, and more intelligent. Lucid's work acceleration platform integrates Al directly into how teams brainstorm, plan, align, and deliver.



Lucid

In this session, discover how AI is transforming collaboration—from whiteboard to workflow. You'll see real-world use cases of AI generating ideas, building intelligent diagrams, summarizing feedback, and accelerating decision-making.

Whether you work in product, engineering, operations, or leadership, you'll leave with practical strategies and examples to bring Al-... Learn More

W7 Unlocking Agentic Al Superpowers in the Quantum Multiverse

Wednesday, June 11, 2025 - 1:35pm to 2:20pm

Step into the future of AI with an immersive dive into the cutting-edge world of AI-Augmented GenAI and how it intercepts with Quantum technologies. This session explores the intersection of multi-threaded AI workflows and the powerful anomaly detection capabilities made possible by Quantum-inspired computing. Discover the latest trends in ModelOps, where agile deployment strategies for domain-specific generative AI models are accelerating innovation in industries ranging from healthcare to defense. Jonathon will uncover how GraphRAG (Graph Retrieval-Augmented Generation) is... Learn More



Jonathon Wright
Keysight

W8 Moving from Reproducible Data Science to the World of LLM, GPT, RAG, and Hallucination

Wednesday, June 11, 2025 - 1:35pm to 2:20pm

We are moving from the world of reproducible data science (machine learning, area under the curve, a/b testing, model selection, model testing, model fitting and model drift to find the best way to run a data science organization) to being faced with the "Easy Button." This "Easy Button" is often wrong, has poor data protocols, and tries to please; without factual basis. Join Bob to explore ways to make the world



Bob Rapp GM (General Motors)

better in the bridge from science to the new world of utterances. This session will include examples and experiences from IBM Watson, Al & GE Healthcare, Al at Microsoft, and...

Learn More

W9 Infinite Segmentation: Scalable Mutual Information Ranking on Real-World Graphs Wednesday, June 11, 2025 - 1:35pm to 2:20pm

From the tiniest bit of information, the smallest little detail, we can pull at that string, tug a little more, and then the next thing you know, we've discovered a new segment. Infinite segmentation and it's pretty darn easy. No really! Random variables possess the ability to share information with one another, and this shared information can be quantitatively assessed using a concept known as mutual information. Mutual information is commonly expressed in bits, which provide a clear measure of the information exchanged between two variables. In practice, mutual information is...

Learn More



Ken Johnston Ford



Ankit Srivastava Microsoft

S3 Guardrails for the Age of Code Generation: Protecting What Matters Most Wednesday, June 11, 2025 - 1:35pm to 2:20pm

As Al-assisted coding tools become commonplace, the software development landscape is undergoing a massive shift. Teams are shipping code faster than ever — but with speed comes risk. How do we ensure that the code we generate, whether by humans or machines, doesn't erode the functionality, reliability,



and business impact we care about?

In this talk, we'll explore why code generation without safety nets can be a recipe for regressions, outages, and missed KPIs. We'll examine how automated guardrails — from tailored unit and integration tests to proactive code reviews and automated... Learn More

Francisco Martin

Stride

There's No Al Without APIs

Wednesday, June 11, 2025 - 2:25pm to 3:10pm

APIs aren't just nice-to-have—they're the essential connective tissue that transforms AI from isolated potential to real-world impact. Using industry data & practical examples, we'll explore how the relationship between AI and APIs is evolving at lightning speed, and why orgs with robust API strategies will win in the AI era. What You'll Learn: the shift from human-first to machine-first consumption patterns in API design, emerging standards that are streamlining AI-API interactions, and strategies to future-proof your API ecosystem for the intelligent systems of tomorrow. Learn More



Talia Kohan Postman

Decoding the Black Box: Unlocking LLM Observability W11

Wednesday, June 11, 2025 - 2:25pm to 3:10pm

LLMs are revolutionizing AI, but their complexity and black-box nature can make it challenging to understand their behavior and ensure optimal performance. This session will demystify LLM observability, providing practical insights and best practices for gaining visibility into LLM interactions, performance, and security. Learn how to: discover the essential metrics to monitor for LLM health and performance. implement effective logging and tracing strategies to track LLM requests and identify bottlenecks, optimize LLM inference performance using profiling techniques, proactively... Learn More



Monalisha Singh NetApp, Inc.

Mastering Prompt Engineering: Unlocking the Power of Prompt Patterns and Meta-**Prompting Technique**

Wednesday, June 11, 2025 - 2:25pm to 3:10pm

As Al becomes increasingly central to professional workflows, the ability to craft effective prompts has emerged as a crucial skill. While many users struggle with trial-and-error approaches, this session **Hien Luu** 7₀₀x introduces a systematic framework for prompt engineering based on proven patterns and and metaprompting techniques. You'll learn how to apply specific prompt patterns such as persona, metalanguage creation, and flipped interaction, and more, to achieve consistently better results. You will then explore meta-prompting - a powerful technique where AI assists in generating, refining, and... Learn More



Observability for Al Models - Cost Management and Business Insights

Wednesday, June 11, 2025 - 2:25pm to 3:10pm

In today's rapidly evolving technological landscape, the deployment and management of AI models have become critical components for businesses striving to maintain a competitive edge. However, ensuring the reliability, performance, and security of these models presents unique challenges. This session will delve into the necessity of observability for AI models, highlighting how comprehensive monitoring and analysis can preemptively identify issues, optimize performance, and ensure robust security.



Dynatrace

We will explore the concept of observability, distinguishing it from traditional...

Learn More

THURSDAY, JUNE 12

The Al-Powered Leader: Creating Alignment and Redefining Leadership in an Autonomous Era

Thursday, June 12, 2025 - 10:50am to 11:35am

Traditional leadership has relied on intuition, manual processes, and fragmented feedback loops. But what if Al could fundamentally reshape how we lead—creating inherent alignment, removing hierarchical bottlenecks, and enabling decentralized decision-making? Imagine an autonomous Al companion

Catch Up Al that analyzes patterns, prioritizes coaching needs, and adapts in real time to foster self-organization, continuous learning, and leadership at every level. In this session, we'll explore how Al-driven leadership models can replace rigid hierarchies with dynamic, data-informed decision-making,...

Learn More

T2 Mastering Quality Engineering in the Age of Al ■ Previ

Thursday, June 12, 2025 - 10:50am to 11:35am

Al is transforming the software quality engineering industry by automating routine tasks and enabling smarter testing approaches. Its integration into software development has profoundly reshaped the field of Quality Engineering (QE). This presentation explores the evolving role of QE in the Al era, addressing the challenges, opportunities, and strategies for achieving excellence in Al-driven environments. By examining the intersection of Al and QE, it provides valuable insights into best practices for maintaining high-quality software and equips QE professionals with the knowledge... Learn More



Nishadhi Nikalandawatte
Slalom Inc.

RAG at Scale: Building Production-Ready GenAl Solutions

Thursday, June 12, 2025 - 10:50am to 11:35am

This session serves as a deep dive into the strategies and best practices for data scientists aiming to build, fine-tune, and scale Retrieval Augmented Generation (RAG) based Generative AI (GenAI) applications. The core objectives for data scientists in the AI development cycle center around providing highly relevant results for end users and maintaining cost-effectiveness to support the sustainable growth of their products. RAG is a pivotal method that enables GenAI applications to operate effectively on proprietary data. At the heart of RAG are robust retrieval systems, which are crucial... Learn More



Francesca Lazzeri
Microsoft

T4 Advancing Biotechnology: AI's Role in Modern Applications

Thursday, June 12, 2025 - 11:40am to 12:25pm

This session explores the transformative impact of AI on biotechnology applications, including drug discovery, genetic sequencing, and digital pathology. It delves into the modernization of testing and verification practices, highlighting the intersection of AI and cybersecurity. Attendees will gain insights into addressing challenges associated with limited training datasets in regulated environments and strategies for developing robust applications. Practical lessons learned and actionable insights will be shared to empower participants in navigating the evolving AI landscape in...



Sucheth Koppa F Hoffmann-La Roche Ltd.

Learn More

T5 Continuous Testing for AI Applications

Thursday, June 12, 2025 - 11:40am to 12:25pm

In the era of artificial intelligence, software testing has evolved from a finite phase in development to an ongoing, dynamic process of monitoring. Unlike traditional deterministic systems, Al-driven applications operate probabilistically, introducing variability and uncertainty in outputs even with consistent inputs. This paradigm shift requires a rethinking of testing strategies, moving towards continuous monitoring to ensure performance, fairness, and reliability in production environments. This session will explore how QA teams can integrate Al-specific methods, anomaly detection, and...



Cy Khormaee Attentive

T6 RAG Has Evolved - Enhance Your RAG Pipeline with These Concepts

Thursday, June 12, 2025 - 11:40am to 12:25pm

The majority of businesses today can set up a fundamental RAG pipeline that effectively handles most use cases. However, this basic setup eventually reaches its limitations in terms of functionality and accuracy, hindering further advancements. Matt Payne aims to detail the necessary pipeline components for building advanced RAG pipelines. For each component, he will explain the what, when, why, and how and provide real-world examples. Key areas of focus include leveraging tools and function calling, which enables you to create a systematic approach to using knowledge from multiple sources...

Learn More



Matt Payne Width.ai

S6 Software Delivery At the Speed of AI: Inflectra Invests In AI-Powered Quality

Thursday, June 12, 2025 - 11:40am to 12:25pm

This talk explores the transformative impact of AI across software project management, development, and automation, showcasing wider principles that can be applied industry-wide. By delving into practical examples of how AI is used within SpiraPlan and Rapise, Adam Sandman highlights the unique benefits that AI integration brings to agile software development teams.

Learn More



Adam Sandman Inflectra

T7 Brewing Better Technology: How Human Insights Enhance AI Capabilities

Thursday, June 12, 2025 - 1:25pm to 2:10pm

Striking the right balance between the efficiency of artificial intelligence (AI) and the nuanced insight of human interaction is crucial. The motivation behind integrating AI in development and testing is to enhance decision-making and productivity through automation. However, solely relying on AI can overlook critical elements that only human testers can provide, such as emotional intelligence and contextual understanding. To illustrate this dynamic, Emma Pyne will use the analogy of AI as coffee brewing machines and human testers as skilled baristas in Seattle's coffee shops. AI... Learn More



Emma Pyne EPAM/Test IO

T8 Tool Calling is Not Just Plumbing for AI Agents

Thursday, June 12, 2025 - 1:25pm to 2:10pm



Tool calling is more than just a technical detail—it's the most important piece of how AI agents get things done. It allows agents to connect to systems, access data, and perform tasks effectively. Building good tools is very similar to building good APIs, as they need good design for things like authentication and security. But building good tools requires a bit more than knowledge about building APIs.

Roy Derks **IBM**

In this session, we'll explore how tool calling works, why it matters, and how to do it right. You'll learn different ways to build tools that help agents connect to APIs, databases...

Learn More

Amazing Ways Retailers Are Using Generative Al T9

Thursday, June 12, 2025 - 1:25pm to 2:10pm

Generative AI is transforming the retail industry by enabling innovative approaches to customer engagement, personalization, and operational efficiency. Retailers are leveraging Al-driven tools to create personalized shopping experiences, from generating tailored product recommendations to crafting dynamic marketing content. In e-commerce, generative AI enhances virtual try-ons and product design, allowing for more interactive and immersive customer journeys. Additionally, retailers use AI for predictive inventory management, automating supply chain decisions, and optimizing logistics.... Learn More



Balvinder Singh Banjardar Walmart Global Tech

AI-Assisted Development: Using GitHub Copilot and Other Tools to Accelerate **Delivery**

Thursday, June 12, 2025 - 1:25pm to 2:10pm

There is no question that Generative AI models can improve the productivity of almost every role within the software development process. Tools like GitHub Copilot, Amazon CodeWhisperer, Tabnine, and more, can be critical tools to help developers do their jobs better and faster. Join Coveros CEO Jeffery Payne to explore how Generative AI solutions help software developers generate and supplement code and even suggest improvements to what you've already created. Learn More



Jeffery Payne Coveros

Navigating Compliance with the EU AI Act: Strategies for Responsible AI **Development and Governance**

Thursday, June 12, 2025 - 2:40pm to 3:25pm

As AI systems continue to transform industries, the EU AI Act sets a pivotal regulatory framework to ensure responsible and ethical use of artificial intelligence across Europe. This session will provide practical insights into navigating compliance with the EU AI Act, addressing key requirements for highrisk AI systems, transparency, accountability, and data governance. Joanna will explore how

organizations can align their AI development processes with the Act's standards while maintaining innovation. Attendees will gain actionable strategies for integrating compliance into existing...





Fullsight

Shadow Vulnerabilities in AI/ML Data Stacks - What You Don't Know CAN Hurt T11 You

Thursday, June 12, 2025 - 2:40pm to 3:25pm

The adoption of open-source AI software introduces a new family of vulnerabilities to organizations. Some components in AI, like model serving, include Remote Code Execution (RCE) by design, like when loading pre-trained models from external sources. Traditional SCA and SAST approaches are not built for



Gal Elbaz Oligo Security

the AI ecosystem leaving a huge & insecure attack surface. The irony is that in the AI ecosystem, security issues such as remote code execution are actually a feature and not a bug, often specified explicitly in the docs, which most devs don't read. AI models are often downloaded from...

Learn More

T12 **Empathy in Code: Balancing Emotional Intelligence with Ethical Boundaries in Al** Thursday, June 12, 2025 - 2:40pm to 3:25pm

As Al systems increasingly support the social and emotional well-being of humans, the integration of human-like interactions presents both opportunities and significant risks that necessitate the use of trauma-informed principles in design. This session examines the delicate balance between creating emotionally intelligent Al and maintaining essential ethical boundaries. Join Megs to explore critical decisions in Al development: when emotional support should be provided versus redirected to human professionals, how to establish clear limitations in Al capabilities, and methods for... Learn More



Megs Shah
Parasol Cooperative

Program

Speakers

Training

Expo

Venue

Virtual Attendee

In-Person Registration

Terms of Use

Privacy Policy

Site Map

©2011-2025 TechWell Corp.

About Us

Join Mailing List

FAQ

Contact

Speak at a Conference

Associated Training and Consulting

Associated Resources and Publications

Login

4000 Legato Road I Suite 1100 I Fairfax, VA I 22033